

Amendments to the claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of claims:

Claims 1-8: (Canceled)

Claim 9 (Currently Amended): A ~~method of shortening~~ computer readable medium storing instructions for causing a processor to shorten a footprint of a pixel in texture space in order to reduce a number of texture samples used during anisotropic filtering by performing the steps of:

receiving a major axis length for the footprint of the pixel in texture space;

receiving a minor axis length for the footprint of the pixel in texture space;

computing a logratio value using the major axis length and the minor axis length; and

modifying the logratio value based on a programmable value of a knob to produce a modified logratio corresponding to a shortened footprint of the pixel in texture space in order to reduce the number of texture samples used during anisotropic filtering.

Claim 10 (Currently Amended): The ~~method~~ computer readable medium of claim 9, wherein the programmable value of the knob is used to reduce a first number of texture samples read from a texture map corresponding to LODfine.

Claim 11 (Currently Amended): The ~~method~~ computer readable medium of claim 9, wherein the programmable value of the knob is used to reduce a second number of texture samples read from a texture map corresponding to LODcoarse.

Claim 12 (Currently Amended): The ~~method~~ computer readable medium of claim 9, wherein the step of modifying includes combining the programmable value of the knob with a LODfrac that is a fractional portion of a base-two logarithm (log) of the minor axis length for the footprint of the pixel in texture space, to modify the logratio value.

Claim 13 (Currently Amended): The ~~method~~-computer readable medium of claim 9, wherein the step of modifying includes determining a bias that is applied to the logratio value based on the programmable value of the knob.

Claim 14 (Currently Amended): The ~~method~~-computer readable medium of claim 9, further comprising a step of determining a first number of texture samples to read from a texture map based on the modified logratio.

Claims 15-20: (Cancelled)

Claim 21. (Currently Amended): A ~~method of reducing~~ computer readable medium storing instructions for causing a processor to reduce a number of texture samples read from a texture map corresponding to LODfine by performing the steps of, comprising:

combining a programmable value of a knob with a LODfrac to compute a modified logratio value, wherein the LODfrac is a fractional portion of a base-two logarithm (log) of a minor axis length of a footprint of a pixel in texture space; and

determining the number of texture samples read from the texture map corresponding to LODfine using the modified logratio value, wherein the number of texture samples corresponding to the modified logratio value is less than a number of texture samples corresponding to a logratio value that is computed as the base-two log of a ratio of a major axis length of the footprint of the pixel in texture space to the minor axis length of the footprint of the pixel in texture space.

Claim 22. (Currently Amended): The ~~method~~-computer readable medium of claim 21, further comprising the step of modifying the modified logratio value by applying a bias to the modified logratio.

Claim 23. (Currently Amended): The ~~method~~-computer readable medium of claim 22, wherein a second programmable knob is used to determine the bias.

Claim 24. (Currently Amended): The ~~method~~-computer readable medium of claim 21, further comprising the step of clamping the modified logratio value.

Claim 25. (Currently Amended): A method of reducing computer readable medium storing instructions for causing a processor to reduce a number of texture samples read from a texture map corresponding to LODcoarse by performing the steps of, comprising:

combining a programmable value of a knob with a LODfrac to compute a modified logratio value, wherein the LODfrac is a fractional portion of a base-two logarithm (log) of a minor axis length of a footprint of a pixel in texture space; and

determining the number of texture samples read from the texture map corresponding to LODcoarse using the modified logratio value, wherein the number of texture samples corresponding to the modified logratio value is less than a number of texture samples corresponding to a logratio value that is computed as the base-two log of a ratio of a major axis length of the footprint of the pixel in texture space to the minor axis length of the footprint of the pixel in texture space.

Claim 26. (Currently Amended): The method-computer readable medium of claim 25, further comprising the step of increasing the modified logratio value based on the LODfrac when a second knob is not equal to zero.

Claim 27. (Currently Amended): The method-computer readable medium of claim 25, further comprising the step of modifying the modified logratio value by applying a bias to the modified logratio.

Claim 28. (Currently Amended): The method-computer readable medium of claim 27, wherein a second programmable knob is used to determine the bias.

Claim 29. (Currently Amended): The method-computer readable medium of claim 25, further comprising the step of clamping the modified logratio value.